

Amendments to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application:

WHAT IS CLAIMED IS:

1-19. (canceled)

20. (previously amended) A method of forming a three-dimensional ceramic material comprising:

(1) coating a layer of a composition onto a surface, wherein the composition comprises:

(a) at least a first monomer comprising at least one ethylenically unsaturated group, and at least one of an Si-N linkage, an Si-O linkage and an Si-C linkage;

(b) at least a second monomer comprising at least one thiol functional group; and

(c) no more than 1.0% by weight of a photoinitiator;

(2) exposing the layer imagewise to actinic radiation to form an imaged cross-section, wherein the radiation is of sufficient intensity to cause substantial curing of the layer in the exposed areas;

(3) coating a layer of the composition onto the previously exposed imaged cross-section;

(4) exposing the layer from step (3) imagewise to actinic radiation to form an additional imaged cross-section, wherein the radiation is of sufficient intensity to cause substantial curing of the layer in the exposed areas and to cause adhesion to the previously exposed imaged cross-section;

(5) repeating steps (3) and (4) a sufficient number of times in order to build up a three-dimensional article; and,

(6) pyrolyzing the three dimensional article to form the three dimensional ceramic material.

21. (original) The method according to claim 20, further comprising separating exposed regions of the layer of the composition from unexposed regions of the layer of the composition.

22-24. (canceled)

25. (previously presented) The method according to claim 20, wherein in the composition has no more than 0.02% by weight of a photoinitiator.

26. (previously presented) The method according to claim 20, wherein in the composition has no photoinitiator.

27. (previously presented) The composition according to claim 1 wherein the composition has no photoinitiator.

28. (previously presented) The method according to claim 9 wherein the composition has no photoinitiator.